

## WEST Search History

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DATE: Tuesday, September 07, 2004

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<input type="checkbox"/>	L9	L8 and urea	7
<input type="checkbox"/>	L8	US-4721724-\$.DID. OR US-5264206-\$.DID. OR US-5346692-\$.DID. OR US-5993790-\$.DID.	8
<input type="checkbox"/>	L7	5346692.pn.	2
<input type="checkbox"/>	L6	5874074.pn.	2
<input type="checkbox"/>	L5	US-20030012749\$.did.	2
<input type="checkbox"/>	L4	toenail same urea	21
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<input type="checkbox"/>	L1	wart same urea	36

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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 5993790 A

Using default format because multiple data bases are involved.

L9: Entry 1 of 7

File: USPT

Nov 30, 1999

US-PAT-NO: 5993790

DOCUMENT-IDENTIFIER: US 5993790 A

TITLE: Nail evulsion compositions and method for evulsing nails and treating nail and nail bed infections

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Strauss; Richard	Woodbury	NY		

US-CL-CURRENT: 424/61; 424/401, 424/487, 424/78.02, 424/78.07, 514/858

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstract	Claims	KMC	Draw De
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☐ 2. Document ID: US 5346692 A

L9: Entry 2 of 7

File: USPT

Sep 13, 1994

US-PAT-NO: 5346692

DOCUMENT-IDENTIFIER: US 5346692 A

TITLE: Nail lacquer for the treatment of onychomycosis

DATE-ISSUED: September 13, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wohlrab; Wolfgang	Halle			DE
Wellner; Katrin	Halle			DE

US-CL-CURRENT: 424/61

ABSTRACT:

The invention relates to a nail lacquer for treating onychomycosis, comprised of a film-forming agent, an antimycotically active substance, and urea, wherewith the

antimycotically active substance and the urea are liberated from the lacquer when the lacquer is applied. A preferred formulation comprises cellulose derivative(s) as film former(s), clotrimazole as the antimycotic (present in the amount of 5-30 wt. % based on the weight of the non-volatile components), urea (present in the amount of 15-60 wt. % based on the weight of the non-volatile components), and dibutyl phthalate as a plasticizer, in a solvent mixture comprised of acetone and ethanol.

13 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw De
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☐ 3. Document ID: US 5264206 A

L9: Entry 3 of 7

File: USPT

Nov 23, 1993

US-PAT-NO: 5264206

DOCUMENT-IDENTIFIER: US 5264206 A

TITLE: Nail lacquer with antimycotic activity, and a process for the preparation thereof

DATE-ISSUED: November 23, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bohn; Manfred	Hofheim am Taunus			DE
Dittmar; Walter	Hofheim am Taunus			DE
Kraemer; Karl	Langen			DE
Peil; Heinz G.	Bad Nauheim			DE
Futterer; Eberhard	Kelkheim			DE

US-CL-CURRENT: 424/61; 514/396, 514/397, 514/444, 514/481, 514/657

ABSTRACT:

A nail lacquer containing at least one film-former which is insoluble in water and at least one substance which has antimycotic activity and is from the group comprising tioconazole, econazole, oxiconazole, miconazole, tolinaftate and naftifine hydrochloride.

12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw De
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☐ 4. Document ID: US 4721724 A

L9: Entry 4 of 7

File: USPT

Jan 26, 1988

US-PAT-NO: 4721724  
DOCUMENT-IDENTIFIER: US 4721724 A

TITLE: Formulations containing azole derivatives, and their use for atraumatic nail removal

DATE-ISSUED: January 26, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stettendorf; Sigrid	Wuppertal			DE
Adams; Karlheinz	Cologne			DE

US-CL-CURRENT: 514/396

ABSTRACT:

A formulation for atraumatic nail removal containing 0.05-1.5 parts by weight of an azole derivative, 5-60 parts by weight of urea, 0-40 parts by weight of lipophilic wetting agent, 0-30 parts by weight of a factor conferring consistency, 0-40 parts by weight of an oil body or spreading agent, 0-0.2 parts by weight of a stabilizer and 20-60 parts by weight of vehicle.

3 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Drawn De
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☐ 5. Document ID: US 5993790 A

L9: Entry 5 of 7

File: DWPI

Nov 30, 1999

DERWENT-ACC-NO: 2000-085317  
DERWENT-WEEK: 200007  
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TITLE: Topical nail enamel composition for treatment of infected toenails or fingernails, onychomycosis, tinea pedis, bacterial and yeast infection e.g. paronychia

INVENTOR: STRAUSS, R

PRIORITY-DATA: 1997US-062011P (August 4, 1997), 1998US-0129002 (August 4, 1998), 1999US-0301253 (April 28, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 5993790 A</u>	November 30, 1999		005	A61K007/04

INT-CL (IPC): A61 K 7/00; A61 K 7/04; A61 K 9/14; A61 K 31/74

ABSTRACTED-PUB-NO: US 5993790A

## BASIC-ABSTRACT:

NOVELTY - A topical nail enamel composition comprises 85-95 weight percent (wt.%) of water based nail lacquer, 0.5-1.5 wt.% of preservative, 0.5-10 wt.% of urea, 1.0-10 wt.% of deionized water and 0.1-0.6 wt.% of natural additive.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) evulsion of toenails or fingernails of mammal which comprises topically applying the above topical nail enamel composition to toenail or fingernail of mammal; and

(b) the treatment of a bacterial or fungal infection on or under a toenail or fingernail of a mammal which comprises evulsing the toenail or fingernail in whole or in part by administering the above topical nail enamel composition and administering antibacterial or antifungal agent on or under toenail or finger nail.

USE - The topical nail enamel composition is used for treating and evulsing infected toenails and fingernails. It is useful for treating typical infections such as onychomycosis and tinea pedis, bacterial and yeast infection such as paronychia.

ADVANTAGE - The topical nail enamel composition partially or completely evulses the nails and nail beds, thereby enhancing the delivery of antimicrobial and antiviral agents to the nail beds, and increasing the effectiveness of topical treatment with antiviral and antimicrobial agents to infected areas. The composition does not dry the tissues or leave them in hard and brittle condition. Hence it is non-drying i.e. it does not cause dehydration of nail and surrounding tissue which is an advantage to the already damaged nail surface.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 6. Document ID: EP 565072 A1, CA 2093895 A, DE 4212105 A1, JP 06009342 A, US 5346692 A

L9: Entry 6 of 7

File: DWPI

Oct 13, 1993

DERWENT-ACC-NO: 1993-322321

DERWENT-WEEK: 199341

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TITLE: Nail varnish for treatment of onychomycoses - contains a polymeric film former, an antimycotic, urea and opt. a softener

INVENTOR: WELLNER, K; WOHLRAB, W

PRIORITY-DATA: 1992DE-4212105 (April 10, 1992)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 565072 A1</u>	October 13, 1993	G	009	A61K007/04
<u>CA 2093895 A</u>	October 11, 1993		000	A61K031/415
<u>DE 4212105 A1</u>	October 14, 1993		008	A61K007/043
<u>JP 06009342 A</u>	January 18, 1994		006	A61K007/043

US 5346692 A

September 13, 1994

006

A61K007/043

INT-CL (IPC): A61K 7/04; A61K 7/043; A61K 9/00; A61K 31/415

ABSTRACTED-PUB-NO: EP 565072A

BASIC-ABSTRACT:

Nail lacquer for the treatment of onychomycoses, containing a polymeric film-forming agent, at least one antimycotic active substance and urea, characterised in that it contains 5-30% by weight of antimycotic active agent, 15-60% by weight of urea and proportions of film-forming agents supplemented to 100% by weight calculated on the basis of the non-volatile constituents, selected from alcohols, ketones, ethers, aromatic hydrocarbons or mixtures thereof, and at least 50% by weight of solvent calculated on the basis of the lacquer formulation overall, whereby the nail lacquer releases both the antimycotic active substance and the urea from the lacquer after local application and drying.

Nail lacquer for the treatment of onychomycoses, containing a polymeric film-forming agent, at least one antimycotic active substance and urea, characterised in that it contains 5-30% by weight of antimycotic active agent, 15-60% by weight of urea and proportions of film-forming agents supplemented to 100% by weight calculated on the basis of the non-volatile constituents, selected from alcohols, ketones, ethers, aromatic hydrocarbons or mixtures thereof, and at least 50% by weight of solvent calculated on the basis of the lacquer formulation overall, whereby the nail lacquer releases both the antimycotic active substance and the urea from the lacquer after local application and drying.

ABSTRACTED-PUB-NO:

EP 565072A EQUIVALENT-ABSTRACTS:

US 5346692A

Nail lacquer compsn. for the treatment of onychomycosis comprises a polymeric film-forming component; one or more antimycotic agents, e.g. certain imidazole derivs.; urea; and a mixt. of acetone (50-70 wt.%) and aq. EtOH (90 vol% EtOH; 50-30 wt.%).

Prepn. of these compsns. comprises dissolving the polymer in the acetone; and mixing with a soln. of the antimycotic agent(s) and urea in aq. EtOH.

USE/ADVANTAGE - On application to infected nails, the solvent dries quickly and the antimycotic agent and urea diffuse to the nail to provide rapid therapy. The prods. avoid the need for ointments or plasters, and do not irritate the surrounding skin tissues.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Keywords	Drawings
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☐ 7. Document ID: EP 204230 A, CA 1282007 C, DE 3520098 A, DE 3686094 G, EP 204230 B1, ES 8800033 A, JP 61282316 A, JP 95059511 B2, US 4721724 A

L9: Entry 7 of 7

File: DWPI

Dec 10, 1986

DERWENT-ACC-NO: 1986-327069

DERWENT-WEEK: 198650

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TITLE: Compsn. for removing nails infected with fungus - contg. azole antimycotic cpd., urea, wetting agent, oily component, stabiliser and carrier

INVENTOR: ADAMS, K; STETTENDORF, S ; STETTENDOR, S

PRIORITY-DATA: 1985DE-3520098 (June 5, 1985)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 204230 A</u>	December 10, 1986	G	009	
<u>CA 1282007 C</u>	March 26, 1991		000	
<u>DE 3520098 A</u>	December 11, 1986		000	
<u>DE 3686094 G</u>	August 27, 1992		000	A61K031/415
<u>EP 204230 B1</u>	July 22, 1992	G	003	A61K031/415
<u>ES 8800033 A</u>	January 1, 1988		000	
<u>JP 61282316 A</u>	December 12, 1986		000	
<u>JP 95059511 B2</u>	June 28, 1995		003	A61K031/41
<u>US 4721724 A</u>	January 26, 1988		000	

INT-CL (IPC): A61K 7/04; A61K 9/06; A61K 31/41; A61K 31/415; A61K 47/00; C07D 233/58; A61K 31/415; A61K 31/17

ABSTRACTED-PUB-NO: DE 3686094G

## BASIC-ABSTRACT:

Compsn. contains an azole (I) plus (by wt.) 5-60 (20-40) pts. urea, 0-40 (10-20) pts. lipophilic wetting agent, 0-30 (5-10) pts. component which provides consistency, 0-40 (10-20) pts. oily material or spreading agent, 0-0.2 (0.01-0.05) pts. stabilisers and 20-60 (25-40) pts. carriers. Pref. (I) include bifonazole (Ia) and clotrimazole (Ib). Suitable wetting agents include lanolin, cholesterol, etc. and agents to provide consistency are, e.g. bleached wax, hard paraffin or cetyl-stearyl alcohol. The oily material/spreading agent is, e.g. isopropyl myristate, ground nut or silicone oil or decyl oleate, and suitable stabilisers are tocopherol or butylated hydroxy-anisole or toluene. Carriers are, e.g. vaseline or mixed pentaerythritol fatty acid esters.

USE/ADVANTAGE - These compsns. are used for non-traumatic removal of nails in humans and animals with onychomycosis. (I) are active antimycotic agents and in these formulations have improved penetration of the nail, while urea has hydrating and keratolytic activity on the nail. The compsn. is applied every 24 hr. to the infected nail and this can then be removed painlessly after 6-10 days.

ABSTRACTED-PUB-NO:

## EP 204230A EQUIVALENT-ABSTRACTS:

Compsn. contains an azole (I) plus (by wt.) 5-60 (20-40) pts. urea, 0-40 (10-20) pts. lipophilic wetting agent, 0-30 (5-10) pts. component which provides consistency, 0-40 (10-20) pts. oily material or spreading agent, 0-0.2 (0.01-0.05) pts. stabilisers and 20-60 (25-40) pts. carriers. Pref. (I) include bifonazole (Ia) and clotrimazole (Ib). Suitable wetting agents include lanolin, cholesterol, etc. and agents to provide consistency are, e.g. bleached wax, hard paraffin or cetyl-stearyl alcohol. The oily material/spreading agent is, e.g. isopropyl myristate, ground nut or silicone oil or decyl oleate, and suitable stabilisers are tocopherol or butylated hydroxy-anisole or toluene. Carriers are, e.g. vaseline or mixed pentaerythritol fatty acid esters.

USE/ADVANTAGE - These compsns. are used for non-traumatic removal of nails in humans and animals with onychomycosis. (I) are active antimycotic agents and in these formulations have improved penetration of the nail, while urea has hydrating

and keratolytic activity on the nail. The compsn. is applied every 24 hr. to the infected nail and this can then be removed painlessly after 6-10 days.

US 4721724A

Atraumatic nail removal method comprises (1) applying a formulation contg. 0.05-1.5 pts. w.t azole deriv. of formula (I) or(II), 5-60 pts. wt. urea, 0.40 pts. wt. lipophilic wetting agent, 0-30 pts. wt. factor conferring consistency, 0-40 pts. wt. spreading agent, 0-0.2 pts. wt. stabiliser and 20-60 pts. wt. vheicle; then (2) removing the nail. The stabiliser is tocopherol, butylhydroxyanisole or butylhydroxytoluene. (I) and (II) are bifonazole and clotrimazole respectively. USE/ADVANTAGE - Used in onychomycoses treatment in humans and animals. The azole derivs. exhibit antimycotic action and the urea loosens the nail. (3pp)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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Term	Documents
UREA	203629
UREAS	23695
(8 AND UREA).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	7
(L8 AND UREA ).PGPB,USPT,USOC,EPAB,JPAB,DWPI.	7

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